AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1	1. (Currentl	y Ame	nded) A computer-implemented method for combining at
2	least two overlapp	ing lay	ers to render an image, the image containing a plurality of
3	image pixels, each	overla	oping layer containing a plurality of layer pixels, each layer
4	pixel correspondin	g to on	e of the image pixels, the method comprising:
5	a') .	defin	ing a tile, the tile comprising a subset of the image pixels
6		delin	nited according to an area of overlap among a set of at least
7		two l	ayers, so that a first portion of the image lies within the tile
8		and a	second portion of the image lies outside the tile; and
9	a)	proce	essing the first portion of the image distinctly from the sec-
10	: :	ond p	portion of the image by, for at least one image pixel in the
11		defin	ed tile:
12		a.1)	initializing an accumulator color value;
13		a.2)	selecting one of the layers in the set of at least two layers,
14			the selected layer having a layer pixel corresponding to
15			the image pixel, the layer pixel having a color value;
16		a.3)	compositing the color value of the layer pixel with the ac-
17			cumulator color value;
18		a.4)	storing the result of a.3) in the accumulator;

19		a.5)	determining whether layer pixels for any remaining lay-
20			ers in the set of at least two layers should be processed;
21		a.6)	responsive to a.5) indicating that layer pixels for any re-
22			maining layers should be processed, repeating a.2) to a.6);
23			and
24		a.7)	outputting the accumulator color value-;
25	wherei	n, for	each defined tile, the set of layers that overlap within the
26	·	tile is	homogenous throughout the entirety of the tile.
27			
1	2. (Original)	The m	nethod of claim 1, wherein each layer pixel has an opacity
2	value, and wherein:		
3	a.1) fur	ther c	omprises initializing an accumulator opacity value;
4	a.3) fur	ther c	omprises compositing the opacity value of the layer pixel
5		with t	he accumulator opacity value; and
6	a.5) coi	mprise	es determining whether the accumulator opacity value in-
7		dicate	s full opacity.
1	3. (Original)	The m	nethod of claim 1, wherein a.2) comprises selecting a top-
2	most remaining laye	r in th	e set of at least two layers.
7	4 (Original)	The	nothed of claim 1 subarain a 70 commisses authorities the
1	4. (Original)	me m	nethod of claim 1, wherein a.7) comprises outputting the
2	accumulator value to	o a fra	me buffer.

5. (Original) The method of claim 1, further comprising: b) displaying the image. 2 6. (Original) The method of claim 1, further comprising: 1 b) repeating a) for each image pixel in the defined tile. 2 7. (Original) The method of claim 1, wherein a) comprises performing a.1) 1 through a.7) for at least two image pixels concurrently. 2 8. (Original) The method of claim 1, further comprising: 1 b) concurrently with a), for a second image pixel in the defined tile: 2 initializing a second accumulator color value; b.1) b.2) selecting one of the layers in the set of at least two layers, the selected layer having a second layer pixel corresponding to the second image pixel, the second layer pixel having a color value; b.3) compositing the color value of the second layer pixel with the second accumulator color value; b.4) storing the result of b.3) in the second accumulator; 9 determining whether layer pixels for any remaining layers in the b.510 11 set of at least two layers should be processed; b.6) responsive to b.5) indicating that layer pixels for any remaining 12 layers should be processed, repeating b.2) to b.6); and 13 outputting the second accumulator color value. 14 b.7)

- 9. (Original) The method of claim 1, wherein at least one of the layers in the set of at least two layers is non-rectangular.
- 1 10. (Original) The method of claim 1, wherein at least one pixel of at least one
 2 of the layers in the set of at least two layers is transparent, and wherein a.3) com3 prises:
- a.3.1) responsive to the layer pixel being transparent, retaining the ac-
- a.3.2) responsive to the layer pixel not being transparent, compositing
 the color value of the layer pixel with the accumulator color
 value.
- 1 11. (Original) The method of claim 1, further comprising:
- b') repeating a') and a) for at least one second defined tile.
- 1 12. (Original) The method of claim 1, wherein each layer comprises a win-2 dow, and wherein the image comprises a display for a windowing system.
- 13. (Original) The method of claim 1, wherein a first one of the layers in the
 2 set overlaps a second one of the layers in the set, and wherein each layer comprises
 3 bounds defined by edges, and wherein at least one edge of the first layer lies within
- the bounds of the second layer, and wherein a') comprises:

5	subdividing the second layer along a line corresponding to an exten-
6	sion of the at least one edge of the first layer that lies within the
7	bounds of the second layer.
1	14. (Original) The method of claim 1, wherein:
2	a.2) comprises selecting one of the layers in the set of at least two layers,
3	the selected layer having a layer pixel corresponding to the im-
4	age pixel, the layer pixel having a color value and an alpha
5	value; and
6	a.3) comprises compositing the color value of the layer pixel with the
7	accumulator color value, using the alpha value.
·	
1	15. (Currently Amended) A system for combining at least two overlapping
2	layers to render an image, the image containing a plurality of image pixels, each
3	overlapping layer containing a plurality of layer pixels, each layer pixel correspond-
4	ing to one of the image pixels, the system comprising:
5	a tile subdivider, for defining a tile, the tile comprising a subset of the
6	image pixels delimited according to an area of overlap among a
7	set of at least two layers, so that a first portion of the image lies
8	within the tile and a second portion of the image lies outside the
9	tile;
0	an accumulator, for initializing an accumulator color value for at least
1	one image pixel in the defined tile:

12	a layer selector, coupled to the tile subdivider, for successively selecting
13	each of at least a subset of the layers in the set of at least two lay-
14	ers, each selected layer having a layer pixel corresponding to the
15	image pixel, the layer pixel having a color value;
16	a compositor coupled to the layer selector and to the accumulator, for,
17	for each successively selected layer, compositing the color value
18	of the layer pixel with the accumulator color value and storing
19	the result in the accumulator; and
20	an output device, coupled to the accumulator, for outputting the ac-
21	cumulator color value;
22	wherein in combining the overlapping layers, the accumulator, the
23·	layer selector, and the compositor process the first portion of the
24	image distinctly from the second portion of the image-;
25	wherein, for each defined tile, the set of layers that overlap within the
26	tile is homogenous throughout the entirety of the tile.
1	16. (Original) The system of claim 15, wherein each layer pixel has an opacity
2	value, and wherein:
3	the accumulator further initializes an accumulator opacity value;
4	the compositor further composites the opacity value of the layer pixel
5	with the accumulator opacity value and stores the result in the
6	accumulator; and

- the subset of overlapping layers selected by the layer selector is determined responsive to a comparison of the accumulator opacity value with a full opacity value.
- 17. (Original) The system of claim 15, wherein the layer selector successively selects layers by selecting a topmost remaining layer in the set of at least two layers.
- 1 18. (Original) The system of claim 15, wherein the output device outputs the accumulator value to a frame buffer.
- 19. (Original) The system of claim 15, further comprising a display device, coupled to the output device, for displaying the image.
- 20. (Original) The system of claim 15, wherein each of the layer selector, compositor, accumulator, and output device operates on each image pixel in the defined tile.
- 21. (Original) The system of claim 15, wherein the layer selector, compositor, accumulator, and output device each operate on at least two image pixels concurrently.
- 22. (Original) The system of claim 15, further comprising a second accumulator, coupled to the compositor, wherein:
- the second accumulator initializes a second accumulator color value for a second image pixel in the defined tile;

5	the layer selector, concurrently with successively selecting each of at
6	least a subset of the layers in the set of at least two layers having
7	a layer pixel corresponding to the first image pixel, selects one of
8	the layers in the set of at least two layers having a second layer
9	pixel corresponding to the second image pixel, the second layer
10	pixel having a color value;
11	the compositor, concurrently with compositing the first color value of
12	the layer pixel with the accumulator color value, composites the
13	color value of the second layer pixel with the second ac-
14	cumulator color value and stores the result in the second ac-
15	cumulator; and
16	the output device outputs the second accumulator color value.
1	23. (Original) The system of claim 15, wherein at least one of the layers in the set of at least two layers is non-rectangular.
1	24. (Original) The system of claim 15, wherein at least one pixel of at least one
2.	of the layers in the set of at least two layers is transparent, and wherein the composi-
3	tor:
4	responsive to the layer pixel being transparent, retains the accumulator

responsive to the layer pixel not being transparent, composites the color

value of the layer pixel with the accumulator color value.

color value; and

25. (Original) The system of claim 15, wherein:

1

10

11

12

13

14

1

2

1

2

3

4

the tile subdivider defines as a second tile a second area of overlap between a second set of at least two layers, the tile comprising a second subset of the image pixels;

the accumulator initializes a second accumulator color value for at least one image pixel in the second defined tile;

ers in the second set of at least two layers, each selected layer
having a layer pixel corresponding to the image pixel, the layer
pixel having a color value;

the compositor, for each successively selected layer, composites the color value of the layer pixel with the second accumulator color value and stores the result in the accumulator; and the output device outputs the second accumulator color value.

- 26. (Original) The system of claim 15, wherein each layer comprises a window, and wherein the image comprises a display for a windowing system.
- 27. (Original) The system of claim 15, wherein a first one of the layers in the set overlaps a second one of the layers in the set, and wherein each layer comprises bounds defined by edges, and wherein at least one edge of the first layer lies within the bounds of the second layer, and wherein the tile subdivider subdivides the sec-

- ond layer along a line corresponding to an extension of the at least one edge of the
- 6 first layer that lies within the bounds of the second layer.

7

10

11

12

28. (Original) The system of claim 15, wherein:

the layer selector successively selects each of at least a subset of the layers in the set of at least two layers, each selected layer having a layer pixel corresponding to the image pixel, the layer pixel having a color value and an alpha value; and the compositor composites the color value of the layer pixel with the accumulator color value, using the alpha value.

29. (Currently Amended) A computer program product comprising a computer-usable medium having computer-readable code embodied therein for combining at least two overlapping layers to render an image, the image containing a plurality of image pixels, each overlapping layer containing a plurality of layer pixels, each layer pixel corresponding to one of the image pixels, the computer program product comprising:

puter to define a tile, the tile comprising a subset of the image pixels delimited according to an area of overlap among a set of at least two layers, so that a first portion of the image lies within the tile and a second portion of the image lies outside the tile; and

13	computer-readable program code devices configured to cause a com-
14	puter to process the first portion of the image distinctly from the
15	second portion of the image by, for at least one image pixel in
16	the defined tile:
17	initializing an accumulator color value;
18	selecting one of the layers in the set of at least two layers, the selected
19	layer having a layer pixel corresponding to the image pixel, the
20	layer pixel having a color value;
21	compositing the color value of the layer pixel with the accumulator
22	color value;
23	storing the result of the compositing in the accumulator;
24	determining whether layer pixels for any remaining layers in the set of
25	at least two layers should be processed;
26	responsive to the determination indicating that layer pixels for any re-
27	maining layers should be processed, repeating the initializing,
28	selecting, compositing, storing, and determining steps; and
29	outputting the accumulator color value-;
30	wherein, for each defined tile, the set of layers that overlap within the
31	tile is homogenous throughout the entirety of the tile.
1	30. (Original) The computer program product of claim 29, wherein each laye
2	pixel has an opacity value, and wherein:

3	the computer-readable program code devices configured to cause a
4	computer to initialize further comprise computer-readable pro-
5	gram code devices configured to cause a computer to initialize
6	an accumulator opacity value;

the computer-readable program code devices configured to cause a computer to composite further comprise computer-readable program code devices configured to cause a computer to composite the opacity value of the layer pixel with the accumulator opacity value; and

the computer-readable program code devices configured to cause a computer to determine whether layer pixels for any remaining layers should be processed comprise computer-readable program code devices configured to cause a computer to determine whether the accumulator opacity value indicates full opacity.

- 31. (Original) The computer program product of claim 29, wherein the computer-readable program code devices configured to cause a computer to select one of the layers comprise computer-readable program code devices configured to cause a computer to select a topmost remaining layer in the set of at least two layers.
- 32. (Original) The computer program product of claim 29, wherein the computer-readable program code devices configured to cause a computer to output the accumulator color value comprise computer-readable program code devices configured to cause a computer to output the accumulator value to a frame buffer.

10

11

12

13

14

• 15

•	oo. (original) The computer program product of claim 25, further compris
2	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to display the image.
1	34. (Original) The computer program product of claim 29, further compris-
2	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to repeat the initializing, selecting, compositing, storing,
5	determining, and outputting for each image pixel in the defined
6	tile.
1	35. (Original) The computer program product of claim 29, wherein the com-
2	puter-readable program code devices are configured to cause a computer to perform
3	the initializing, selecting, compositing, storing, and outputting for at least two image
4	pixels concurrently.
1	36. (Original) The computer program product of claim 29, further compris-
2	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to, for a second image pixel in the defined tile and concur-
5	rently with the selecting, compositing, storing, and outputting
۲	for the first image pivel:

7	initialize a second accumulator color value;
8	select one of the layers in the set of at least two layers, the selected layer
9	having a second layer pixel corresponding to the second image
10	pixel, the second layer pixel having a color value;
11	composite the color value of the second layer pixel with the second ac-
12	cumulator color value;
13	store the result of the compositing in the second accumulator;
14	determine whether layer pixels for any remaining layers in the set of at
15	least two layers should be processed;
16	responsive to the determination indicating that layer pixels for any re-
17	maining layers should be processed, repeat the initializing, se-
18	lecting, compositing, storing, and determining steps; and
19	output the second accumulator color value.
	•

- 37. (Original) The computer program product of claim 29, wherein at least one of the layers in the set of at least two layers is non-rectangular.
- 38. (Original) The computer program product of claim 29, wherein at least
 one pixel of at least one of the layers in the set of at least two layers is transparent,
 and wherein the computer-readable program code devices configured to cause a
 computer to composite the color value of the layer pixel with the accumulator color
 value comprise computer-readable program code devices configured to cause a computer to:

- responsive to the layer pixel being transparent, retain the accumulator

 color value; and

 responsive to the layer pixel not being transparent, composite the color

 value of the layer pixel with the accumulator color value.
- 39. (Original) The computer program product of claim 29, further comprising:

 computer-readable program code devices configured to cause a com-
- puter to define as a second tile an area of overlap between a set

 of at least two layers, the second tile comprising a second subset

 of the image pixels; and
- computer-readable program code devices configured to cause a computer to repeat the initializing an accumulator color value, selecting one of the layers, compositing, storing, repeating, and outputting, for the second defined tile.
 - 40. (Original) The computer program product of claim 29, wherein each layer comprises a window, and wherein the image comprises a display for a windowing system.
- 41. (Original) The computer program product of claim 29, wherein a first one of the layers in the set overlaps a second one of the layers in the set, and wherein each layer comprises bounds defined by edges, and wherein at least one edge of the first layer lies within the bounds of the second layer, and wherein the computer-

2

readable program code devices configured to cause a computer to define as a tile an

6 area of overlap comprises:

7

8

10

1

2

3

5

7

8

10

11

computer-readable program code devices configured to cause a computer to subdivide the second layer along a line corresponding to an extension of the at least one edge of the first layer that lies within the bounds of the second layer.

42. (Original) The computer program product of claim 29, wherein:

the computer-readable program code devices configured to cause a computer to select one of the layers comprise computer-readable program code devices configured to cause a computer to select one of the layers in the set of at least two layers, the selected layer having a layer pixel corresponding to the image pixel, the layer pixel having a color value and an alpha value; and the computer-readable program code devices configured to cause a computer to composite the color value of the layer pixel with the accumulator color value are configured to cause a computer to use the alpha value to composite the color value.

1 43. (Currently Amended) A system for combining at least two overlapping
2 layers to render an image, the image containing a plurality of image pixels, each
3 overlapping layer containing a plurality of layer pixels, each layer pixel correspond4 ing to one of the image pixels, the system comprising:

5	tile subdividing means, for defining a tile, the tile comprising a subset
6	of the image pixels delimited according to an area of overlap
7	among a set of at least two layers, so that a first portion of the
8	image lies within the tile and a second portion of the image lies
9	outside the tile;
10	accumulating means for initializing an accumulator color value for at
11	least one image pixel in the defined tile;
12	layer selecting means, for successively selecting each of at least a subset
13	of the layers in the set of at least two layers, each selected layer
14	having a layer pixel corresponding to the image pixel, the layer
15	pixel having a color value;
16	compositing means, coupled to the layer selecting means and to the ac-
17	cumulating means, for, for each successively selected layer,
18	compositing the color value of the layer pixel with the ac-
19	cumulator color value and storing the result in the accumulating
20	means; and
21	output means, coupled to the accumulating means, for outputting the
22	accumulator color value;
23	wherein in combining the overlapping layers, the accumulating means,
24	the layer selecting means, and the compositing means process
25	the first portion of the image distinctly from the second portion
26	of the image-;

47	wherein, for each defined the, the set of layers that overlap within the
28	tile is homogenous throughout the entirety of the tile.
1	44. (Original) The system of claim 43, wherein each layer pixel has an opacity
2	value, and wherein:
3	the accumulating means further initializes an accumulator opacity
4	value;
5	the compositing means further composites the opacity value of the
6	layer pixel with the accumulator opacity value and stores the re-
7	sult in the accumulating means; and
8	the subset of overlapping layers selected by the layer selecting means is
9 .	determined responsive to a comparison of the accumulator opac
10	ity value with a full opacity value.
1	45. (Original) The system of claim 43, wherein the layer selecting means suc-
2	cessively selects layers by selecting a topmost remaining layer in the set of at least
3	two layers.
1	46. (Original) The system of claim 43, wherein the output means outputs the
2 .	accumulator value to a frame buffer.
1	47. (Original) The system of claim 43, further comprising display means, cou
2	pled to the output means, for displaying the image.

- 48. (Original) The system of claim 43, wherein each of the layer selecting means, compositing means, accumulating means, and output means operates on each image pixel in the defined tile.
- 49. (Original) The system of claim 43, wherein each of the layer selecting
 means, compositing means, accumulating means, and output means operates on at
 least two image pixels concurrently.
 - 50. (Original) The system of claim 43, further comprising a second accumulating means, coupled to the compositing means, for initializing a second accumulator color value for a second image pixel in the defined tile, and wherein:

the layer selecting means, concurrently with successively selecting each of at least a subset of the layers in the set of at least two layers having a layer pixel corresponding to the first image pixel, selects one of the layers in the set of at least two layers having a second layer pixel corresponding to the second image pixel, the second layer pixel having a color value;

the compositing means, concurrently with compositing the first color value of the layer pixel with the accumulator color value, composites the color value of the second layer pixel with the second accumulator color value and stores the result in the second accumulating means; and

the output means outputs the second accumulator color value.

1

2

3

4

5

6

8

10

11

12

13

14

1	51. (Original) The system of claim 43, wherein at least one of the layers in the
2	set of at least two layers is non-rectangular.

- 52. (Original) The system of claim 43, wherein at least one pixel of at least one of the layers in the set of at least two layers is transparent, and wherein the compositing means:
- responsive to the layer pixel being transparent, retains the accumulator color value; and
- responsive to the layer pixel not being transparent, composites the color value of the layer pixel with the accumulator color value.
 - 53. (Original) The system of claim 43, wherein:
- the tile subdividing means defines as a second tile a second area of

 overlap between a second set of at least two layers, the tile com
 prising a second subset of the image pixels;
- the accumulating means initializes a second accumulator color value
 for at least one image pixel in the second defined tile;
 the layer selecting means successively selects each of at least a subset of
 the layers in the second set of at least two layers, each selected
- layer having a layer pixel corresponding to the image pixel, the

2

3

11	the compositing means, for each successively selected layer, composites
12	the color value of the layer pixel with the second accumulator
13	color value and stores the result in the accumulator; and
14	the output means outputs the second accumulator color value.

- 54. (Original) The system of claim 43, wherein each layer comprises a window, and wherein the image comprises a display for a windowing system.
- 55. (Original) The system of claim 43, wherein a first one of the layers in the set overlaps a second one of the layers in the set, and wherein each layer comprises bounds defined by edges, and wherein at least one edge of the first layer lies within the bounds of the second layer, and wherein the tile subdividing means comprises:

 means for subdividing the second layer along a line corresponding to an extension of the at least one edge of the first layer that lies within the bounds of the second layer.
 - 56. (Original) The system of claim 43, wherein:
 - the layer selecting means successively selects each of at least a subset of
 the layers in the set of at least two layers, each selected layer
 having a layer pixel corresponding to the image pixel, the layer
 pixel having a color value and an alpha value; and
 the compositing means composites the color value of the layer pixel
 with the accumulator color value, using the alpha value.

2

3

5

6

1	or. (Currently Amendeu) in an image containing a prurantly or layers,
2	wherein a first one of the layers overlaps a second one of the layers, and wherein
3	each layer comprises bounds defined by edges, and wherein at least one edge of the
4	first layer lies within the bounds of the second layer, a method of subdividing tiles,
5	comprising:
·6	subdividing the second layer along a straight line corresponding to an
7	extension of the at least one edge of the first layer that lies within
8	the bounds of the second layer, to obtain two tile subdivisions;
9	and
10	storing, in a tile list, a representation of at least a subset of the obtained
11	tile subdivisions-;
12	wherein, for each tile, the set of layers that overlap within the tile is
13	homogenous throughout the entirety of the tile.
1	58. (Original) The method of claim 57, further comprising:
2	repeating the subdividing step using at least one of the obtained tile
3	subdivisions.
1	59. (Original) The method of claim 57, further comprising:
2	joining at least two adjacent tile subdivisions in the tile list.
1	60. (Original) The method of claim 57, further comprising:

2	responsive to at least two adjacent tile subdivisions including portions
3	of the same set of identical layers as one another, joining the at
4	least two adjacent tile subdivisions in the tile list.
1	61. (Currently Amended) In a device containing an image having a plurality
2	of layers, wherein a first one of the layers overlaps a second one of the layers, and
3	wherein each layer comprises bounds defined by edges, and wherein at least one
4	edge of the first layer lies within the bounds of the second layer, a system for subdi-
5	viding tiles, comprising:
6	a tile subdivider, for subdividing the second layer along a straight line
7	corresponding to an extension of the at least one edge of the firs
8	layer that lies within the bounds of the second layer, to obtain
9	two tile subdivisions; and
10	a tile list, coupled to the tile subdivider, for storing a representation of
11	at least a subset of the obtained tile subdivisions-;
12	wherein, for each tile, the set of layers that overlap within the tile is
!3	homogenous throughout the entirety of the tile.
1	62. (Original) The system of claim 61, wherein:
2	the tile subdivider repeats the subdividing using at least one of the ob-
	•

63. (Original) The system of claim 61, further comprising:

tained tile subdivisions.

3

2	a tile joiner, coupled to the tile list, for joining at least two adjacent file
3	subdivisions in the tile list.
1	64. (Original) The system of claim 61, further comprising:
2	a tile joiner, coupled to the tile list, for, responsive to at least two adja-
3	cent tile subdivisions including portions of the same set of iden-
4	tical layers as one another, joining the at least two adjacent tile
5	subdivisions in the tile list.
1	65. (Currently Amended) A computer program product comprising a com-
2	puter-usable medium having computer-readable code embodied therein for subdi-
3	viding tiles in an image containing a plurality of layers, wherein a first one of the
4	layers overlaps a second one of the layers, and wherein each layer comprises bounds
5	defined by edges, and wherein at least one edge of the first layer lies within the
6	bounds of the second layer, comprising:
7	computer-readable program code devices configured to cause a com-
8	puter to subdivide the second layer along a straight line corre-
9	sponding to an extension of the at least one edge of the first laye
10	that lies within the bounds of the second layer, to obtain two tile
11	subdivisions; and
12	computer-readable program code devices configured to cause a com-
13	puter to store, in a tile list, a representation of at least a subset of

the obtained tile subdivisions-;

15	wherein, for each tile, the set of layers that overlap within the tile is
16	homogenous throughout the entirety of the tile.
1	66. (Original) The computer program product of claim 65, further compris-
2	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to repeat the subdividing using at least one of the obtaine
5	tile subdivisions.
1	67. (Original) The computer program product of claim 65, further compris-
2	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to join at least two adjacent tile subdivisions in the tile list
1	68. (Original) The computer program product of claim 65, further compris-
2.	ing:
3	computer-readable program code devices configured to cause a com-
4	puter to, responsive to at least two adjacent tile subdivisions in-
5	cluding portions of the same set of identical layers as one an-
6	other, join the at least two adjacent tile subdivisions in the tile
7	list.
1	69. (Currently Amended) In a device containing an image having a plurality
2	of layers, wherein a first one of the layers overlaps a second one of the layers, and

3	wherein each layer comprises bounds defined by edges, and wherein at least one
4	edge of the first layer lies within the bounds of the second layer, a system for subdi-
5	viding tiles, comprising:
6	tile subdividing means, for subdividing the second layer along a
7	straight line corresponding to an extension of the at least one
8	edge of the first layer that lies within the bounds of the second
9	layer, to obtain two tile subdivisions; and
10	tile list storage means, coupled to the tile subdividing means, for stor-
11	ing a representation of at least a subset of the obtained tile sub-
12	divisions-;
13	wherein, for each tile, the set of layers that overlap within the tile is
14	homogenous throughout the entirety of the tile.
1	70. (Original) The system of claim 69, wherein:
2	the tile subdividing means repeats the subdividing using at least one of

- the tile subdividing means repeats the subdividing using at least one of the obtained tile subdivisions.
- 71. (Original) The system of claim 69, further comprising:
- tile joining means, coupled to the tile list storage means, for joining at least two adjacent tile subdivisions in the tile list.
- 72. (Original) The system of claim 69, further comprising:
- tile joining means, coupled to the tile list storage means, for, responsive
 to at least two adjacent tile subdivisions including portions of

- the same set of identical layers as one another, joining the at least
- 5 two adjacent tile subdivisions in the tile list.